The following catalog has gaps in its page numbers, or doesn't have any numbers. We have chosen to leave the page numbering in the order that Acrobat assigns it.

Onan

Parts Manual

DHH GenSet

GENERAL INFORMATION

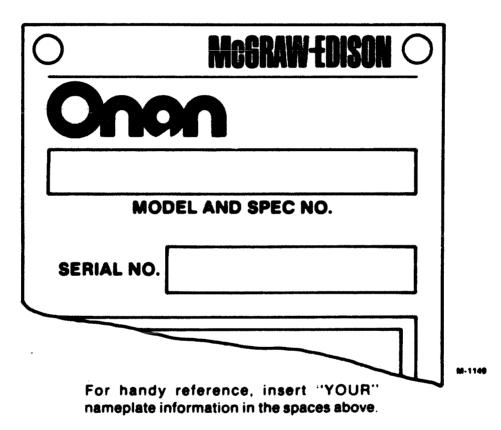
INSTRUCTIONS FOR ORDERING REPAIR PARTS

For parts or service, contact the dealer from whom you purchased this equipment or refer to your Nearest Authorized Onan Parts and Service Center.

To avoid errors or delay in filling your parts order, please furnish all information requested.

Always refer to the nameplate on your unit.

1. Always give the MODEL, SPEC NO. and SERIAL NO.



- 2. Do not order by reference number; always use part number and description.
- 3. Give the part number, description and quantity needed of each item. If an older part cannot be identified, return the part prepaid to your dealer or nearest Onan Parts and Service Center. Print your name and address plainly on the package. Write a letter to the same address stating the reason for returning the part.
- 4. State definite shipping instructions. Any claim for loss or damage to your unit in transit should be filed promptly against the transportation company making the delivery. Shipments are complete unless the packing list indicates items are back ordered.

Prices are purposely omitted from this Parts Manual due to the confusion resulting from fluctuating costs, import duties, sales taxes, exchange rates, etc.

For current parts prices, consult your Onan Dealer, Distributor or Parts and Service Center.

"En esta lista de partes los precios se omiten de proposito, ya que bastante confusion resulto de fluctuaciones de los precios, derechos aduanales, impuestos de venta, cambios extrajeros, etc."

Consiga los precios vigentes de su distribuidor de productos "ONAN."

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This parts catalog applies to the standard generator sets listed below. Any engine parts modified or added by Onan will be listed in this catalog and have been assigned Onan part numbers for identification. These modified or added parts supersede similar parts listed in the Engine Manufacturer's manuals. The illustrations are arranged in groups of related items, and each part or assembly is identified by a reference number. All parts illustrated are typical, and unless otherwise mentioned, parts are interchangeable. These typical illustrations are subject to change and reflect only the latest replacement parts arrangement. The Right and Left generator set sides are determined by facing the front end of the engine.

SET DATA TABLE

MODEL IDENTIFICATION	RATING	MODEL IDENTIFICATION	RATING
1,000.0DHH- 1/#£	1,000,000 WATTS		

ELECTRICAL DATA TABLE

*VOLTAGE CODES	VOLTS	HERTZ	WIRE	PHASE	NOTES
4	120/208	60	4	3	
4X	277/480	60	4	3	
5D	120/240	60	4	3	
6D	240/480	6 0	4	3	
7	220/380	6 0	4	3	
7X	240/416	60	4	3	
8	127/220	60	4	3	
9X	347/600	60	4	3	
33	139/240	6 0	4	3	
519	110/190, 115/200	50	4	3	
520	220/380, 230/400	50	4	3	
521	120/208, 127/220	50	4	3	
522	240/416, 254/440	50	4	3	

^{* -} Voltage codes follow model letter designations.

NOTICE!

ITEMS REFERENCED AS **OPTIONAL** INDICATE PART IS FACTORY INSTALLED AND MAY NOT BE APPLICABLE TO ALL MODELS. FOR FIELD CONVERSIONS ADDITIONAL PARTS ARE USUALLY REQUIRED.



^{# -} Specification number; number 1 is standard, all others indicate variations.

^{£ -} Specification letter; letter advances (A to B, B to C, etc.) with major manufacturing changes

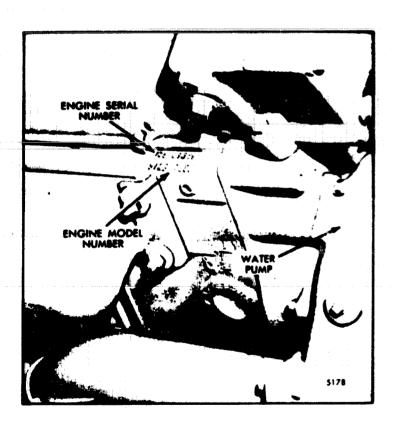
REPLACEMENT ENGINE

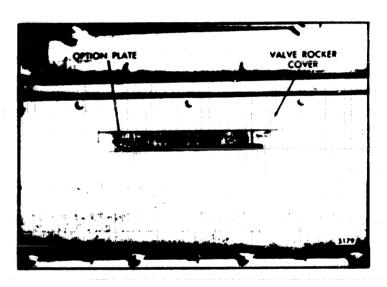
Engine, Replacement (Part number not available at time of printing)
Includes: Complete cylinder block, cylinder head(s), flywheel, fan blades, water pump, oil filter, fuel filters.

Excludes: Alternator, voltage regulator (when part of alternator), oil pressure senders, water temperature senders or cutoff switch, radiator, governor and starter

NOTE: This replacement engine is for Onan's Standard Spec 1 generator sets, for all other refer to the factory for ireplacement information

ENGINE MODEL, SERIAL NUMBER AND OPTION PLATE



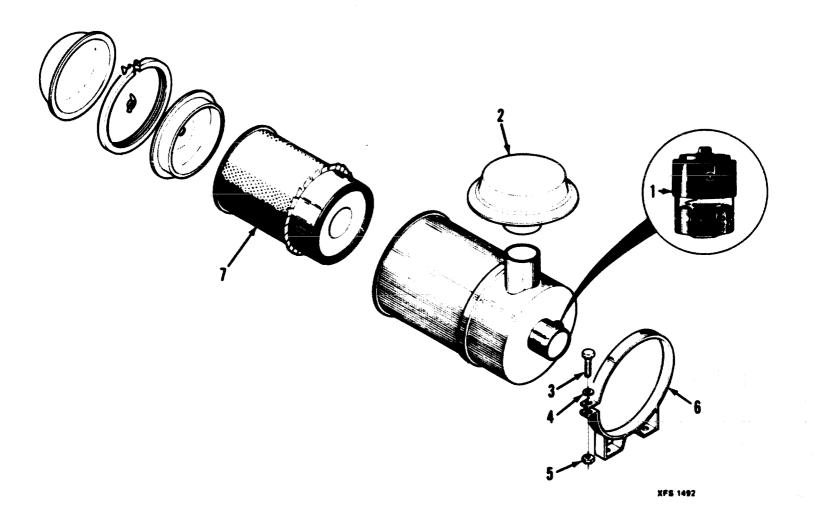


Detroit Diesel Allison
13400 W. Outer Drive
Detroit, Michigan 48228

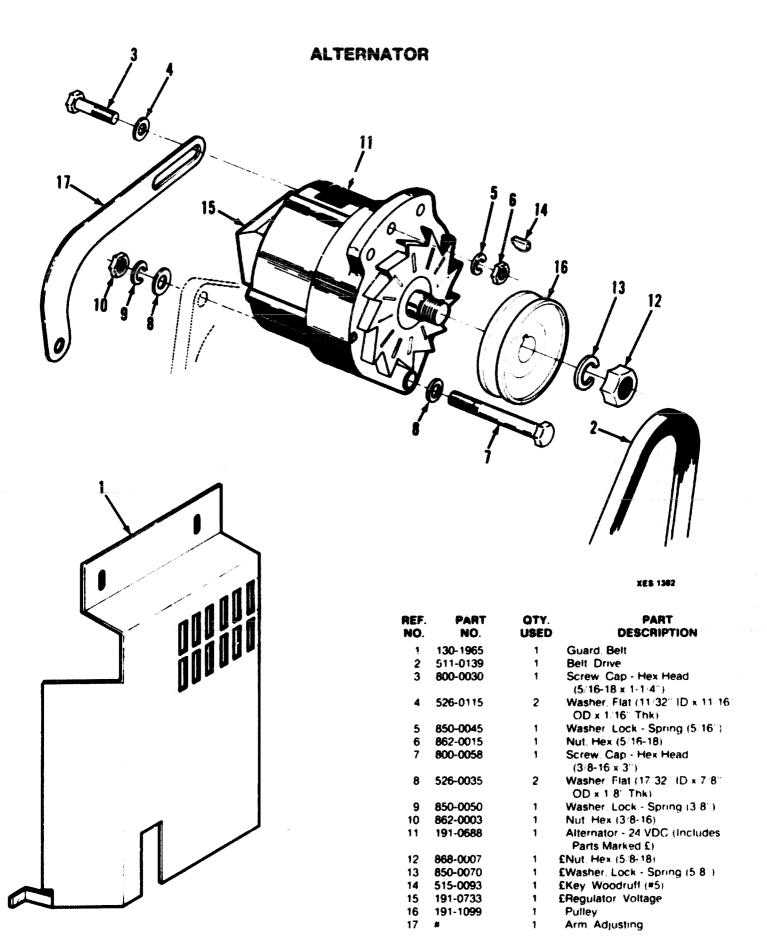
ENGINE REPLACEMENT PARTS

All engine replacement parts must be ordered from the engine manufacturer, except those modified or added by Onan. When ordering engine parts, refer to the manufacturer's nameplate and supply the Model. Spec. Serial numbers and other available information. Refer to the engine manufacturer's manuals for your nearest authorized distributor or parts center; or contact the Onan distributor from whom you purchased this set for assistance in ordering replacement parts.

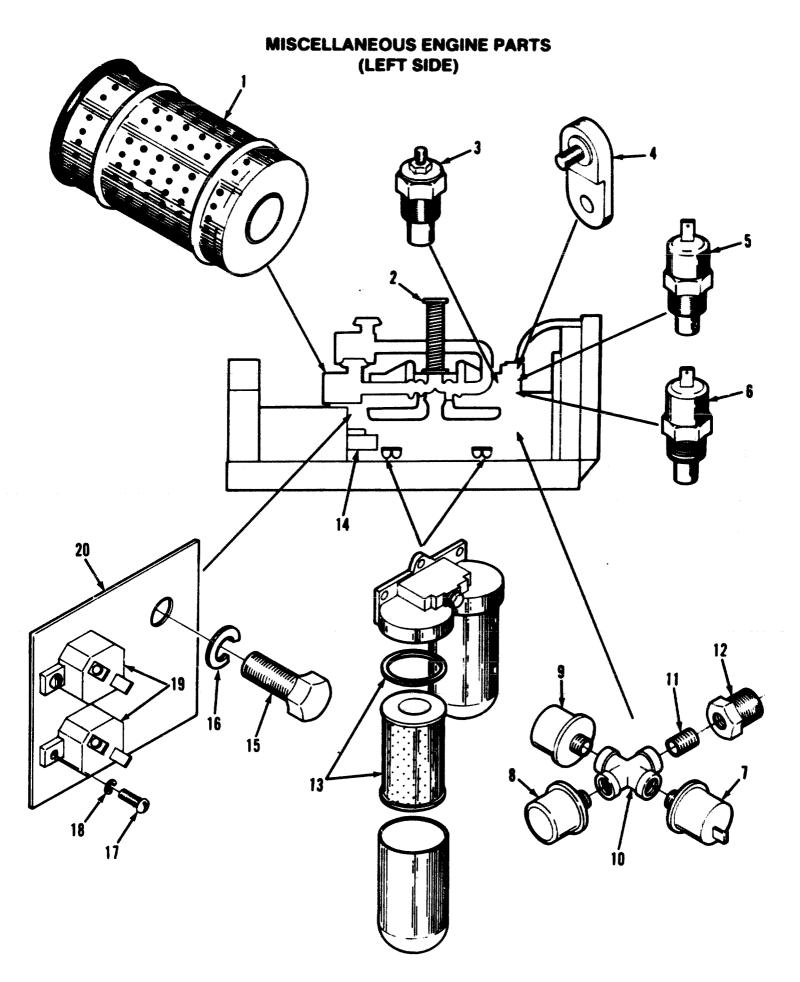
AIR CLEANER



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	140-1548	4	Indicator, Service - Air Cleaner
2	140-1545	4	Hood, Air Cleaner (7" ID Outlet)
3	800-0037	8	Screw, Cap - Hex Head (5/16-18 x 3")
4	526-0113	16	Washer, Flat - (11/32" ID x 1" OD x 3/32" Thk)
5	870-0257	8	Nut, Self-locking - Hex Washer Head (5/16-18)
6	140-0799	8	Band, Mounting (16" ID)
7	140-1888	4	Element, Filter



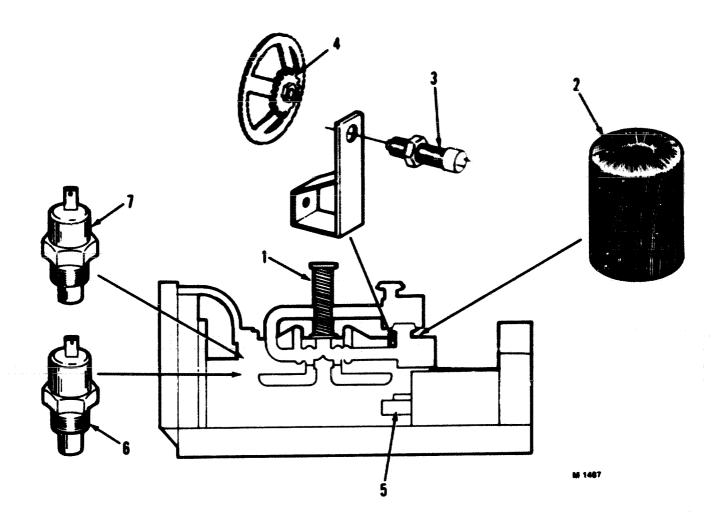
- £ Parts Included with Alternators
- # Part Supplied by Engine Manufacturer Refer to Engine Parts Manual.



MISCELLANEOUS ENGINE PARTS (LEFT SIDE)

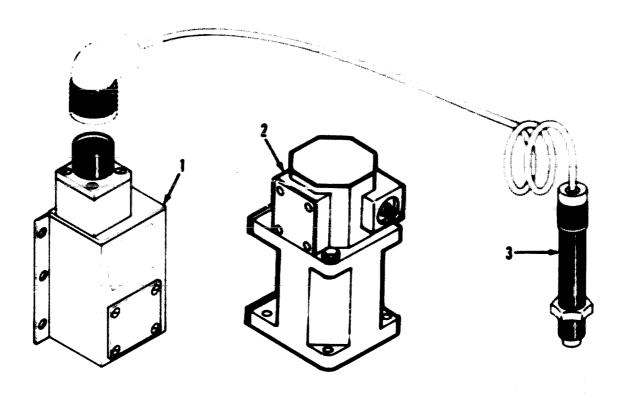
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION		
1	149-1896	1	Element - Secondary Fuel Filter		
2	155-1978	1	Tube, Exhaust		
3	193-0247	1	Sender, Temperature - Engine Coolant		
4		1	Switch, Thermostatic - Low Engine Temperature		
5	309-0178	1	Switch, Thermostatic - Hi Engine Coolant Temperature (Shutdown)		
6	309-0179	1	Switch, Thermostatic - Hi Engine Coolant Temperature (Pre-Alarm)		
7	193-0244	1	Sender, Oil Pressure		
8	309-0272	1	Switch, Pressure - Oil (Pre-Alarm)		
9	309-01 69	1	Switch, Pressure - Oil (Shutdown)		
10	505-0763	1	Cross, Pipe (1/8" NPT)		
11	505-0104	1	Nipple, Pipe - Close (1/8" NPT x 1-1/2")		
12	505-0016	1	Bushing, Reducer - Hex (3/8" NPT x 1/8" NPT)		
13	122-0608	4	Element - Lube Oil Filter		
14	191-1588	1	Starter - 24 VDC		
15	800-0151	1	Screw, Cap - Hex Head (3/4-10 x 1")		
16	850-0079	1	Washer, Lock - Spring (3.4")		
17	811-0103	2	Screw, Machine - Round Head (#10-32 x 3/4")		
18	850-0030	2	Washer, Lock Spring (#10)		
19	320-0240	2	Circuit Breaker		
20	301-4206	1	Plate. Mounting		

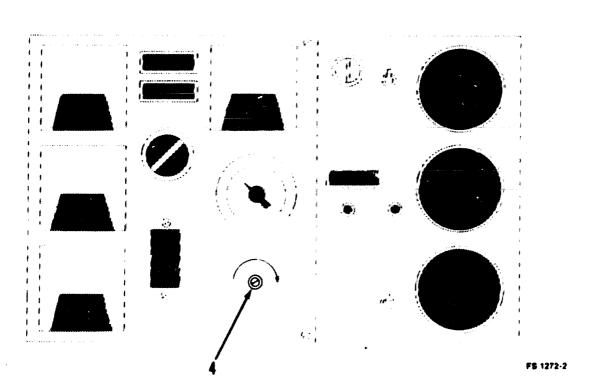
MISCELLANEOUS ENGINE PARTS (RIGHT SIDE)



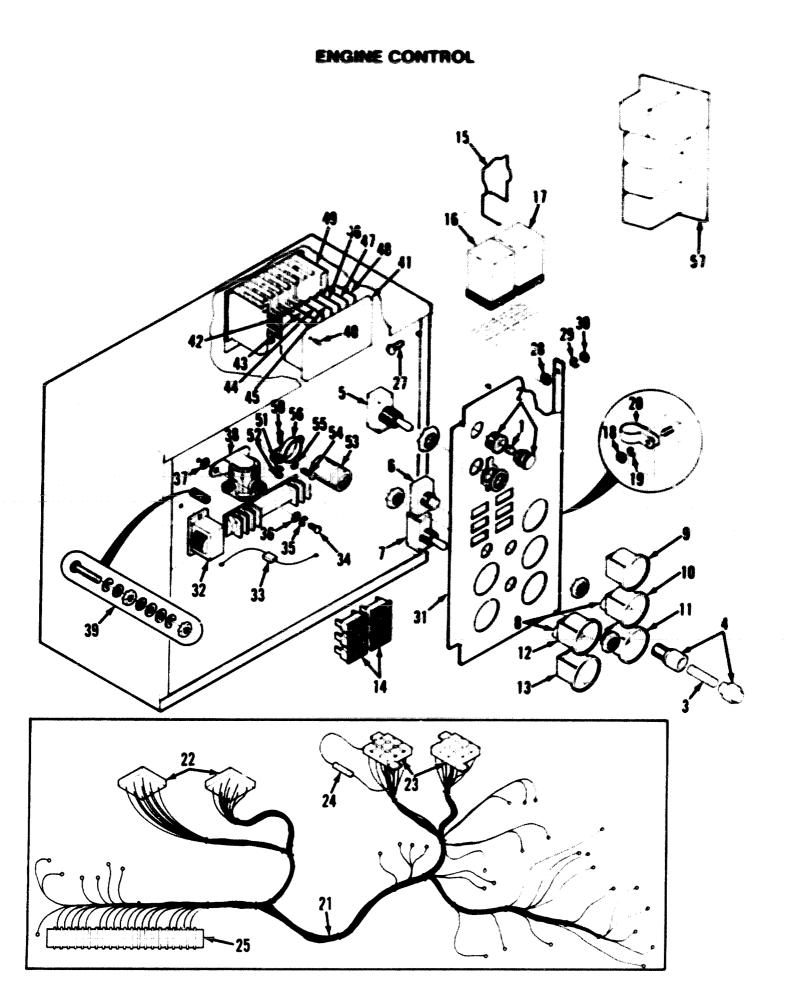
REF. NO.	PART NO.	USED	PART DESCRIPTION					
1	155-1978	1	Tube, Exhaust					
2	149-1895	1	Element - Primary Fuel Filter					
3	150-1406	1	Pickup - Magnetic					
4	150-1557	1	Wheel, Signal - Magnetic Pickup					
5	191-1588	1	Starter - 24 VDC					
5	309 -0179	1	Switch, Thermostatic - Hi Engine Coolant Temperature (Shutdown)					
7	309-0178	1	Switch, Thermostatic - Hi Engine Coolant Temperature (Pre-Alarm)					

GOVERNOR





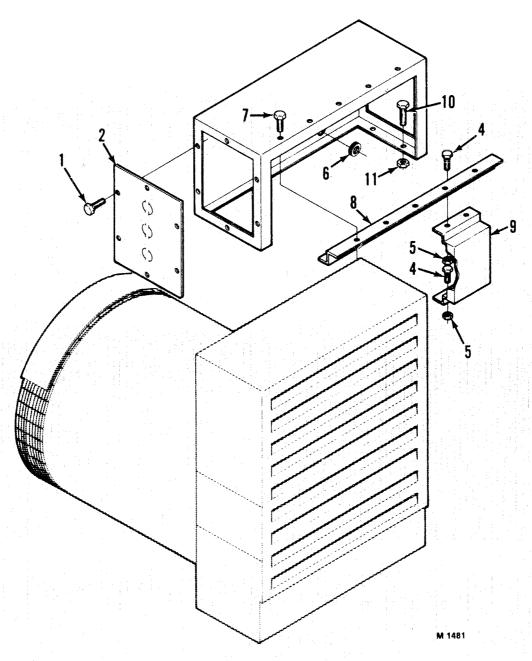
REF. NO.	PART QTY. NO. USED		PART DESCRIPTION
1	151-0399	1	Control Unit - Governor (24 Volt)
2	151-0569	1	Actuator - Governor (24 Volt)
3	151-0411	1	Pickup, Magnetic
4	151-0402	1	Potentiometer - Speed Control (5K Ohms)



ENGINE CONTROL

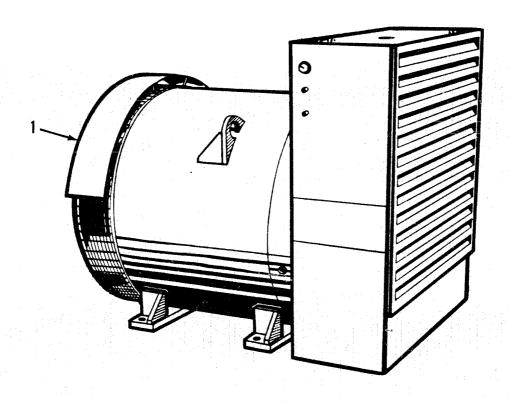
REF.	PART NO.	QTY. USE			REF		QTY. USED	
1	322-0017	1.	Lamp, Incandescent (24 VDC)		32	315-0361	1	Transformer, Step-down
2	322-0149	1	Lampholder		02			OR TRANSFORMER
3	321-0147	1 .	Fuse (5 Amp)			812-0061	2	Screw, Machine - Round Head
4	321-0217	1	Fuseholder			0.2 000.		(#6-32 x 3/8")
5	308-0002	1	Switch, Toggle (SPST)			853-0003	2	Washer, Lock - EIT (#6)
6	308-0410	1	Switch, Push					Appendix Communication and Appendix Appendix appendix appendix appendix
7		TOGGLE-S			33	357-0018	1	Diode With Terminals
	308-0220	1	Standard & Cycle Cranking Controls		34	813-0098	2	Screw, Machine - Round Head (#10-32 x 3/8")
	308-0347	1	Penn State Controls		35	850-0030	2.	Washer, Lock - Spring (#10)
	308-0539	1	Remote Alarm Circuit Controls		36	526-0009	2	Washer, Flat (7/32" ID x
8	193-0250	3	Resistor, Gauge		-	020 0000	-	1/2" OD x 1/16" Thk)
9	302-0061	. 1	Ammeter		37	856-0003	2	Washer, Lock - EIT (#10)
10	193-0243	1	Gauge, Pressure - Oil		38	307-0061	. 1	Relay, Solenoid - Start (24 VDC)
11	193-0245	1	Gauge, Temperature - Engine		39			ASSEMBLY (Includes Parts
			Coolant			Marked #)		
12	193-0248	1	‡Gauge, Temperature - Oil			871-0010	2	#Nut, Hex - Brass (#10-32)
13	302-0749	1	‡Tachometer - Electrical			850-0030		#Washer, Lock - Spring (#10)
14	*LIGHT, INI	DICATOR -	- 28 VDC (Lens Color & Legend			526-0062		#Washer, Flat - Brass (13/64" ID x
	Listed Beld						· 	1/2" OD x 1/16" Thk)
	322-0119	. 1	RED - OVERCRANK	4		853-0008	1	#Washer, Lock - ET (#10)
	322-0120	1	RED - LO OIL PRESS			856-0003		#Washer, Lock - EIT (#10)
	322-0121	1	RED - HI ENG TEMP			815-0203		#Screw, Machine - Round Head,
	322-0122	1	RED - LO ENG TEMP			0,0 0200	•	Brass (#10-32 x 7/8")
	322-0123	1	RED - OVER SPEED		40	815-0387	4	Screw, Machine - Pan Head,
	322-0135	1	RED - OVER VOLTAGE		. •		,	Cross-Recessed Drive
	322-0137	1	RED - (No Legend)					(#6-32 x 1/4")
15	307-1157	3	Spring, Hold Down - Relay		41	301-4015	1	Cover, Access - Control Plug-in
16	307-1061	1	Relay				,	Modules
17	307-1056	2	Relay		42	300-1573	1	Control, Cycle Cranker
18	870-0053	1	Nut, Hex (#10-32)		43	300-1574	1	Control, Start - Disconnect
19	850-0030	1	Washer, Lock - Spring (#10)		44	300-1575	1	Control, Overspeed
20	332-0052	1	Clamp, Loop		45	300-1576	1	Control, Engine Monitor No. 1
21	338-1016	1	Harness, Wiring - Engine Control		46	300-1577	1	Control, Engine Monitor No. 2
			(Includes Parts Marked †)		47	300-1578	1	Control, Engine Shutdown
	ATTACHE	D HARDWA	ARE FOR WIRING HARNESS		48	300-1579	1	Control, Time Delay, Start-Stop
	812-0061	4	Screw, Machine - Round Head		49	300-1572	1	Chassis, Control
			(#6-32 x 3/8")		50	812-0061	1	Screw, Machine - Round Head
	812-0066	. 2	Screw, Machine - Round Head					(#6-32 x 3/8")
			(#6-32 x 3/4")		51	860-0006	1	Nut, Hex (#6-32)
	853-0003	6	Washer, Lock - Spring (#6)		52	853-0003	1	Washer, Lock - ET (#6)
	860-0006	4	Nut, Hex (#6-32)		53	356-0072	1	Capacitor, Fixed, Electrolytic (4000 MFD, 30 VDC)
22	323-0984	2	†Connector, Plug, Electrical		54	812-0063	2	Screw, Machine - Round Head
			(12 Pin)					(#6-32 x 1/2")
23	323-0765	3	†Socket, Relay		5 5	853-0003	2	Washer, Lock - ET (#6)
24	357-0004	1	†Diode		56	356-0070	1	Clamp, Capacitor Mounting
25	332-1005	1	†Board, Terminal (20 Place)		57	300-1342	1	Control, Alarm Relay - Optional
26	332-1559	1	Strip, Marker					, , , , , , , , , , , , , , , , , , , ,
27	815-0026	3	Screw, Machine - Truss Head (#10-32 x 3/8")			nal Items Used Included in Wi		ine Mounted Senders.
28	856-0003	3	Washer, Lock - EIT (#10)					ess. minal Assembly.
	850-0030	3	Washer, Lock - Spring (#10)					
	870-0053	3	Nut, Hex (#10-32)					order 322-0137 remove and
	PANEL, CO							ens with legend from burned out
	301-4086	1	With Three Gauge Mtg. Holes	4	igiit -	lights snap in	anu out o	panel.
	301-4000	1	With Four Gauge Mtg. Holes					
	301-3997		With Five Gauge Mtg. Holes					
		,	THAT I TO GRAYO WILL FIGURES					

CONTROL, HOUSING



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
. 1	821-0005	12	Screw, Self-locking - Hex Washer Head (#10-32 x 1/2")
2	301-6399	2	Panel, Access - Side
4	821-0014	4	Screw, Self-locking - Hex Washer Head (5/16-18 x 1/2")
, 5	870-0257	4	Nut, Self-locking - Hex (5/16-18)
6	508-0004	3	Grommet
7	821-0010	5	Screw, Self-locking - Hex
			Washer Head (1/4-20 x 1/2")
8	301-4125	1	Bracket, Double Angle
9	301-4110	1	Panel, Control - Blank
10	821-0014	7	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")
11	870-0212	7	Nut, Self-locking - Hex (1/4-20)
12	301-6424	1	Housing, Control

GENERATOR ASSEMBLY

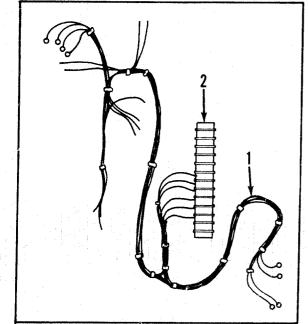


REF. PART QTY. PART
NO. USED DESCRIPTION

1 REF Generator Assembly
NOTE: Refer to Marathon's
manual (Onan #945-0011) for
parts and service information.

GENERATOR CONTROL

XES 1387



GENERATOR CONTROL

REF.		QTY.	PART	REF		QTY.	PART
NO.		USED	DESCRIPTION	NO.	. NO.	USED	DESCRIPTION
. 1			SENERATOR CONTROL (Includes	10	517-0131	1 :	Plug, Plastic
	Terminal Blo	ck)		. 11	303-0032	1	Knob
	338-0759	1	Used on All Codes (Modified As	12	303-0076	1	Knob, Pointer
			Required)	13	308-0284	1	Switch, Selector
		HARDWA	ARE FOR WIRING HARNESS	14	303-0170	1	Rheostat (35K Ohms, 25 Watt)
	812-0066	2	Screw, Machine - Round Head	15	151-0402	1	Potentiometer (5K Ohms)
			(#16-32 x 3/4")	16	406-0334	2	Clip, Retaining - Turnbutton
	850-0020	2	Washer, Lock - Spring (#6)				Fastener
				17	406-0333	2	Stud, Turnbutton Fastener
2	332-0795	. 1	Block, Terminal - 16 Place	18	870-0053	1	Nut, Hex (#10-32)
3	332-1242	1	Strip, Marker - 16 Place	19	850-0030	1	Washer, Lock - Spring (#10)
4	AMMETER (S	Select As F	Required)	20	332-0051	1	Clamp, Loop
	302-0414	1	Scale Reads 0-500 Amperes	21	815-0026	3	Screw, Machine - Truss Head
	302-0415	1	Scale Reads 0-750 Amperes				(#10-32 x 3/8")
	302-0416	1	Scale Reads 0-1000 Amperes	22	301-3342	1	Panel, Control
	302-0640	1	Scale Reads 0-1200 Amperes	23	406-0332	2	Receptacle, Turnbutton Fastene
	302-0641	1	Scale Reads 0-1500 Amperes	26	TRANSFORME	R, VOLT	
	302-0642	1	Scale Reads 0-2000 Amperes		315-0034	1	220/440 VAC Output Signal
	302-1044	1	Scale Reads 0-2500 Amperes	NOTE	Transformer is I	Antobod	to Voltage Regulator
	302-1045	1	Scale Reads 0-3000 Amperes	NOTE.			
5	VOLTMETER	(Select A					OR TRANSFORMER
11	302-0421	1.	Scale Reads 0-300 Volts		812-0061	2	Screw, Machine - Round Head
	302-1283	1	Scale Reads 0-500 Volts				(#6-32 x 3/8")
	302-0422	1	Scale Reads 0-600 Volts		853-0003	2	Washer, Lock - ET (#6)
	302-0779	1	Scale Reads 0-750 Volts		040 000		
6		QUENCY	(Select As Required)	27	812-0065	4	Screw, Machine - Round Head
	302-0810	1	60 Hertz, 208 Volt	00	0.00		(#6-32 x 5/8")
	302-0811	1	60 Hertz, 240 Volt	28	853-0003	4	Washer, Lock - ET (#6)
	302-0894	. 1	50 Hertz, 208 Volt	31	508-0001	4	Grommet, Rubber
_	302-0895	1	50 Hertz, 240 Volt	32	800-0045	4	Screw, Cap - Hex Head
7			ZING (Select As Required)	00	850-0045		(5/16-18 × 3/8")
	302-0466	1	60 Hertz	33 34	402-0070	4	Washer, Lock - Spring (5/16")
_	302-0469	1	50 Hertz	35	337-0049		Dampener, Vibration
. 8	320-0307	. 1	Lock, Handle - Circuit Breaker	33		1 DTC FC	Strap, Ground
			(Used on Penn State Sets)		ATTACHING PA	1	
			RE FOR LOCK		000-0040	1	Screw, Cap - Hex Head (5/16-18 x 3/8")
	815-0203	1	Screw, Machine - Round Head		850-0045	1	Washer, Lock - Spring (5/16")
	054 0040		(#10-32 x 7/8")		856-0008		Washer, Lock - Spring (5/16")
	854-0010	1	Washer, Lock - IT (#10)		862-0015		Nut, Hex (5/16-18)
	871-0010	1	Nut, Hex (#10-32)		002-0013	4	TVUE, 116X (3/10-16)
9	320-0456	.1	Circuit Breaker - 3 Amp	36	301-4135	1	Box, Control
3			RE FOR CIRCUIT BREAKER				
	812-0061	2	Screw, Machine - Round Head				
	012-0001	ج .	(#6-32 x 3/8")				
	850-0020	. 2	Washer, Lock - Spring (#6)				
	815-0203	1	Screw, Machine - Round Head,				
	010 0200		Brass (#10-32 x 7/8")				
	871-0010	4	Nut, Hex - Brass (#10-32)				
	853-0008	1	Washer, Lock - ET (#10)				
	526-0049	1	Washer, Flat - Brass (13/64" ID x				
			7/16" OD x 1/32" Thk)				